



PTO/SB/08A (08-03)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	10/727,400		
		Filing Date	December 3, 2003		
		First Named Inventor	Wakabayashi, Kenichi		
		Art Unit	Unassigned		
Examiner Name	Unassigned				
Sheet	1	of	4	Attorney Docket Number	021654-000270US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
4.8.	AA	US-3,225,262	12-21-1985	Myers	
4.8.	AB	US-3,993,123	11-23-1976	Chu et al.	
4.8.	AC	US-4,027,206	05-31-1977	Lee	
4.8.	AD	US-4,092,697	05-30-1978	Spalght	
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4.8.	AF	US-4,381,552	04-26-1983	Nocilini et al.	
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4.8.	AH	US-4,557,225	12-10-1985	Sagues, et al.	
4.8.	AI	US-4,563,725	01-07-1986	Kirby	
4.8.	AJ	US-4,621,304	11-04-1986	Oogaki et al.	
4.8.	AK	US-4,636,916	01-13-1987	Burt, et al.	
4.8.	AL	US-4,639,829	01-27-1987	Ostergren et al.	
4.8.	AM	US-4,649,990	03-17-1987	Kurihara et al.	
4.8.	AN	US-4,682,566	07-28-1987	Aitken	
4.8.	AO	US-4,729,060	03-01-1988	Yamamoto et al.	
4.8.	AP	US-4,739,444	04-19-1988	Zushi, et al.	
4.8.	AQ	US-4,771,365	09-13-1988	Cichocki et al.	
4.8.	AR	US-4,791,608	12-13-1988	Fushimoto	
4.8.	AS	US-4,833,570	05-23-1989	Teratani	
4.8.	AT	US-4,849,944	07-18-1989	Matsushita	
4.8.	AU	US-4,855,869	08-08-1989	Tsuji	
4.8.	AV	US-4,872,091	10-03-1989	Maniwa et al.	
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4.8.	AX	US-4,914,551	04-03-1990	Anschel et al.	
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4.8.	AZ	US-5,016,086	05-14-1991	Inoue et al.	
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4.8.	BB	US-5,031,076	07-09-1991	Kiku	
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4.8.	BD	US-5,136,146	08-04-1992	Anglin et al.	
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4.8.	BG	US-5,142,614	08-25-1992	Schneider et al.	
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4.8.	BK	US-5,198,965	03-30-1993	Curtis et al.	
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Examiner Signature		<i>David J. Klein</i>		Date Considered	08/19/04

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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		Number	Kind Code <sup>2</sup> (if known)			
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U. P.	BQ	US-5,424,913		08-13-1995	Swindler	
U. P.	BR	US-5,432,913		07-11-1995	Smits et al.	
U. P.	BS	US-5,437,041		07-25-1995	Wakabayashi et al.	
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U. P.	BX	US-5,528,229		08-11-1996	Wakabayashi et al.	
U. P.	BY	US-5,548,487		08-20-1996	Brabetz et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
U.P.	CA	DE	3237878	04-26-1984	Ant Nachrichtentech		<input type="checkbox"/>
U.P.	CB	DE	3416348	11-07-1985	Siemens AG		<input type="checkbox"/>
U.P.	CC	DE	9112099.3	01-23-1992			<input checked="" type="checkbox"/> (Corresponds to 5,548,487)
U.P.	CD	EP	0198378 A2	10-22-1986	Otis Elevator Company		<input type="checkbox"/>
U.P.	CE	FR	2601791 A1	01-22-1988	Ricoh Company Ltd.		<input checked="" type="checkbox"/> (Corresponds to 4,872,091)
U.P.	CF	GB	2164803 A	03-28-1986	Smiths Industries Public Limited Company		<input type="checkbox"/>
U.P.	CG	GB	2248973 A	04-22-1992	Mitsubishi Electric Corp		<input type="checkbox"/>
U.P.	CH	JP	53-91375	08-11-1978	Hitachi Ltd.		<input checked="" type="checkbox"/> (Abstract)
U.P.	CI	JP	54-2834	01-10-1979	Atari Inc.		<input checked="" type="checkbox"/> (Abstract)
U.P.	CJ	JP	56-129353 A	10-09-1981	Mitsubishi Electric Corp		<input checked="" type="checkbox"/>
U.P.	CK	JP	57-75488 A	05-12-1982	Mitsubishi Electric Corp		<input checked="" type="checkbox"/>
U.P.	CL	JP	57-75489 A	05-12-1982	Mitsubishi Electric Corp		<input checked="" type="checkbox"/>
U.P.	CM	JP	57-198798	12-17-1982			<input checked="" type="checkbox"/>
U.P.	CN	JP	58-30994	02-28-1983			<input checked="" type="checkbox"/>
U.P.	CO	JP	58-140691	09-21-1983			<input checked="" type="checkbox"/>
U.P.	CP	JP	58-182694	10-29-1983			<input checked="" type="checkbox"/>
U.P.	CQ	JP	58-201349 A	11-24-1983	Mitsubishi Electric Corp		<input checked="" type="checkbox"/>
U.P.	CR	JP	59-194458 A	11-05-1984	Chiba, et al.		<input checked="" type="checkbox"/>
U.P.	CS	JP	60-32397 A	02-19-1985	Matsushita Electric IND Co Ltd.		<input checked="" type="checkbox"/>

Examiner Signature	<i>Wakabayashi</i>	Date Considered	08/19/04
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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
U.S.	CT	JP	60-173791	A	09-07-1985	Matsushita Electric IND Co Ltd.		<input checked="" type="checkbox"/> (Abstract)
U.S.	CU	JP	60-254841	A	12-16-1985	Fujitsu Ltd.		<input checked="" type="checkbox"/> (Abstract)
U.S.	CV	JP	61-222763	A	10-03-1986	Seiko Epson Corp.		<input checked="" type="checkbox"/> (Abstract)
U.S.	CW	JP	62-1181	A	01-07-1987	Ricoh Company Ltd.		<input checked="" type="checkbox"/> (Abstract)
U.S.	CX	JP	62-45841	U	03-19-1987			<input checked="" type="checkbox"/>
U.S.	CY	JP	63-50096	A	03-02-1988	Fanuc Ltd.		<input checked="" type="checkbox"/> (Partial Translation)
U.S.	CZ	JP	63-119554	A	05-24-1988	Nippon Electric Co.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DA	JP	63-181385	A	07-26-1988	Hitachi Ltd.		<input checked="" type="checkbox"/>
U.S.	DB	JP	63-184397	A	07-29-1988	Nippon Telegraph & Telephone		<input checked="" type="checkbox"/>
U.S.	DC	JP	63-167796	U	11-01-1988			<input checked="" type="checkbox"/>
U.S.	DD	JP	63-278261	A	11-15-1988	Nippon Electric Co.		<input checked="" type="checkbox"/> (Partial Translation)
U.S.	DE	JP	63-284869	A	11-22-1988	Fujitsu Ltd.		<input checked="" type="checkbox"/>
U.S.	DF	JP	63-289999	A	11-28-1988	Hitachi Ltd.		<input checked="" type="checkbox"/>
U.S.	DG	JP	63-292661	A	11-29-1988	Nippon Telegraph & Telephone		<input checked="" type="checkbox"/>
U.S.	DH	JP	64-74797	A	03-20-1989	Oki Electric IND Co Ltd.		<input checked="" type="checkbox"/>
U.S.	DI	JP	1-122195	A	05-15-1989	NEC Corp.		<input checked="" type="checkbox"/>
U.S.	DJ	JP	1-140799	A	06-01-1989	NEC Corp.		<input checked="" type="checkbox"/>
U.S.	DK	JP	1-89791	U	06-13-1989			<input checked="" type="checkbox"/>
U.S.	DL	JP	1-165415	A	06-29-1989	Mitsubishi Cable IND Ltd.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DM	JP	1-220898	A	09-04-1989	Mitsubishi Electric Corp.		<input checked="" type="checkbox"/>
U.S.	DN	JP	1-298753	A	12-01-1989	Nippon Electric Co.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DO	JP	1-319194	A	12-25-1989	Nippon Electric Co.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DP	JP	2-58789	A	02-27-1990	Nippon Electric Co.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DQ	JP	2-66962	A	03-07-1990	Mitsui Petrochemical IND		<input checked="" type="checkbox"/> (Abstract)
U.S.	DR	JP	2-119299	A	05-07-1990	Mitsubishi Electric Corp.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DS	JP	2-123798	U	10-11-1990			<input checked="" type="checkbox"/>
U.S.	DT	JP	2-253289	A	10-12-1990	Canon		<input checked="" type="checkbox"/> (Abstract)
U.S.	DU	JP	2-277700	A	11-14-1990	Nippon Electric Co.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DV	JP	3-11409	A	01-18-1991	Oki Electric IND Co Ltd.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DW	JP	3-6724	A	01-23-1991	Seiko Epson Corp		<input checked="" type="checkbox"/> (Partial Translation)
U.S.	DX	JP	3-22160	A	01-30-1991	Fuji Electric Co Ltd.; Fuji Facom Corp.		<input checked="" type="checkbox"/> (Abstract)
U.S.	DY	JP	3-36815	A	02-18-1991	Mitsumi Electric Co Ltd.		<input checked="" type="checkbox"/>
U.S.	DZ	JP	3-182397	A	08-08-1991	Mitsubishi Electric Corp.		<input checked="" type="checkbox"/>

Examiner Signature	<i>Chul Park</i>	Date Considered	08/19/04
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